BRUHATH BENGALURU MAHANAGARA PALIKE

NAME OF WORK: ESTIMATE FOR PROVIDIG OF LADIES TOILET IN GOVERNMENT SCHOOL IN DODDABOMMASANDRA, WARD NO. 10		
Abstract of Detailed Cost Estimate		
Sl. No.	**Description of Work**	**Cost in Rs.**
1	Civil Works	702627.33
2	WATER SUPPLY AND SANITORY	139284.40
3	Electrical Works	50731.50
	Total Cost	**892643.23**
4	GST (12% of the estimated cost)	**107117.19**
	Total Cost	**999760.41**
5	Miscellaneous and Rounding off	**239.59**
	Grand Total in Rs	**1000000.00**
In Words: Rupees Ten Lakhs Only		

Certificate:

1) The Work spot has been inspected and found to be necessory
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessory and minimum
4) The estimate is based on C.S.R 2018-2019 and approved rates

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BRUHATH BENGALURU MAHANAGARA PALIKE

NAME OF WORK: ESTIMATE FOR PROVIDIG OF LADIES TOILET IN GOVERNMENT SCHOOL IN DODDABOMMASANDRA, WARD NO. 10

Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
1	KSRB 2 - 1.1: Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.specification No.KBS 2.1(a) / 2.3.1 (PWD, S.R. 2018-19)(Page No. 5, Item No.2.1)									
	Basic Rate =	249.00								
	Area Weightage @8%=	19.92								
	Total Rate =	**268.92**	Cum							
				1	7.20	3.60	0.30	7.78		
								7.78	**268.92**	**2091.12**
2	KSRB 2-2.2: Earthwork excavation by manual means for foundation of buildings,water supply,sanitary lines and electrical conduits either in pis or in trenches1.5m and above in width,in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits & trenches ,stacking the excavated soil clear from the edges of excavation with lead upto 50m after breaking of clods complete as per specifications. specification No.KBS2.1(b) /2.3.5 (PWD, S.R. 2018-19)(Page No. 5, Item No.2.4)									
	Basic Rate =	449.00								
	Area Weightage @8%=	35.92								
	Total Rate =	**484.92**	Cum							
	External Wall			2	7.20	0.60	1.20	10.37		
				2	3.60	0.60	1.20	5.18		
	Partition Wall			2	3.35	0.60	1.20	4.82		
				4	1.20	0.60	1.20	3.46		
	SumpTank			1	2.75	1.90	1.50	7.84		
								31.67	**484.92**	**15357.17**
3	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7 (PWD, S.R. 2018-19)(Page No. 5, Item No.3.2)									
	Basic Rate =	106.00								
	Area Weightage @8%=	8.48								
	Total Rate =	**114.48**	Sqm							
				1	7.20	3.60		25.92		
								25.92	**114.48**	**2967.32**

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
4	KSRB4-1.3:- Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed concrete laid layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials, labour. HOM of mahinery, curing complete as per specifications . specification no KBS 4.1,4.2 (PWD, S.R. 2018-19)(Page No. 12, Item No.4.3)									
	Basic Rate =	5102.00								
	Area Weightage @8%=	408.16								
	Total Rate =	**5510.16**	Cum							
	External Wall			2	7.20	0.60	0.15	1.30		
	0			2	3.60	0.60	0.15	0.65		
	Partition Wall			2	3.35	0.60	0.15	0.60		
				4	1.20	0.60	0.15	0.43		
	for SSM Top									
	External Wall			2	7.20	0.60	0.15	1.30		
	0			2	3.60	0.60	0.15	0.65		
	Partition Wall			2	3.35	0.60	0.15	0.60		
	For Flooring									
	total area			1	7.20	3.60	0.15	3.89		
								9.41	**5510.16**	**51872.65**
5	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth, compacting each deposited layers by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.(PWD, S.R. 2018-19)(Page No. 6, item No. 2.10)									
	Basic Rate =	201.00								
	Area Weightage @8%=	16.08								
	Total Rate =	**217.08**	Cum					39.45		
	Total Earth Work Qty.							9.41		
	Deduct							26.26		
	Bed Concrete							7.78		
	S.S.M.Masonry in foundation			1	7.20	3.60	0.30	43.45		
	filling below plinth							**43.45**	**217.08**	**9432.56**
6	KSRB5.2.2: Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortor 1:8,stone hammer dressed in courses less than 20 cms high.bond stones at 2 m apart in each course, including cost of all materials ,labour, curing complete as per specification. No. KBS 5.1.13 (PWD, S.R. 2018-19)(Page No. 23, item No. 5.5)									
	Basic Rate =	4037.00								
	Area Weightage @8%=	322.96								
	Total Rate =	**4359.96**	Cum							
	External wall			2	7.20	0.60	1.05	9.07		
	Step - 01			2	3.60	0.60	1.05	4.54		
				2	7.20	0.45	0.45	2.92		
	Step - 02			2	3.60	0.45	0.45	1.46		
				2	3.35	0.60	1.20	4.82		
	Partition Wall			4	1.20	0.60	1.20	3.46		
								26.26	4359.96	114501.27

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
7	KSRB 4.2.7 :Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and Beams, retaining walls, return walls, Walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, Parapets, Coping, bed blocks, anchor blocks, Plain Window Cills, Fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (PWD, S.R. 2018-19)(Page No. 13, item No. 4.12)									
	Basic Rate =	6045								
	Area Weightage @8%=	483.60								
	Total Rate =	**6528.60**	Cum							
	Roof			1	21.00	0.20	0.30	1.26		
	top of wall for roof - Beam			1	2.55	1.70	0.30	1.30		
	Roof top for sump			1	7.20	3.60	0.15	3.89		
	roof top									
	Lintel			1	1.60	0.20	0.20	0.06		
	V1			8	1.15	0.20	0.20	0.37		
	V			2	1.50	0.20	0.20	0.12		
	D			8	1.05	0.20	0.10	0.17		
	D1			1	7.20	0.20	0.20	0.29		
	Front							**7.46**		
								7.46	**6528.60**	**48680.51**
8	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (PWD, S.R. 2018-19)(Page No. 15, item No. 4.29.2)									
	Basic Rate =	400.00								
	Area Weightage @8%=	32.00								
	Total Rate =	**432.00**	Sqm							
	Roof			1	2.55	1.70		4.34		
	Roof top for sump			1	7.20	3.60		25.92		
	roof top							**30.26**	**432.00**	**13070.16**
9	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 kgs, with 12mm and down size graded granite metal coarse aggregates @ 0.05865 cum and line agregtes @ 0.0391 cum, with superplastisiser @ 0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, (Sl. No. 4.20, Page No.14), (SR 2018-19),									
	Basic Rate =	496.00								
	Area Weightage @8%=	39.68								
	Total Rate =	**535.68**	Sqm							
	V1			1	1.60	0.60		0.96		
	V			8	1.15	0.60		5.52		
	front full			1	7.20	0.60		4.32		
								10.80	**535.68**	**5785.34**

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
10	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2, (Sl. No. 4.37, Page No.16),									
	Basic Rate =	323.00								
	Area Weightage @8%=	25.84								
	Total Rate =	**348.84**	Sqm							
	V1			1	1.60	0.60		0.96		
	V			8	1.15	0.60		5.52		
	front full			1	7.20	0.60		4.32		
								10.80	**348.84**	**3767.47**
10	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (PWD, S.R. 2018-19)(Page No. 15, item No. 4.34)									
	Basic Rate =	297.00								
	Area Weightage @8%=	23.76								
	Total Rate =	**320.76**	Sqm							
	lintels			1	1.60		0.60	0.96		
				8	1.15		0.60	5.52		
				2	1.50		0.60	1.80		
				8	1.05		0.40	3.36		
				1	21.00		0.60	12.60		
	beam							**24.24**	**320.76**	**7775.22**
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT bars Fe 500(PWD, S.R. 2018-19)(Page No. 1, item No. 4.46.2)									
	Basic Rate =	64961.00								
	Area Weightage @8%=	5196.88								
	Total Rate =	**70157.88**	Tonne							
	Lintel and slab @ 80Kg/cum				7.46			5.97		
	Chajja @ 20Kg/sqm				10.80			2.16		
								8.13		
								0.81	**70157.88**	**57004.68**
12	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/cum having a minimum average compressive strength of 4.00N/mm2 confirming to IS 2185(Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding , curing , hire charges of machineries etc., complete as per specfications . KBS No.5.4 with solid concrete blocks of size 40x20x20cm (PWD, S.R. 2018-19)(Page No. 24, item No. 5.26.1)									
	Basic Rate =	962.00								
	Area Weightage @8%=	76.96								

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	Total Rate =	1038.96	Sqm							
				2	7.20		3.00	43.20		
				2	3.20		3.00	19.20		
				1	3.20		3.00	9.60		
	for sump wall			2	1.70		1.50	5.10		
				2	2.40		1.50	7.20		
								84.30		
	Deduct									
	V1			1	0.90		0.60	0.54		
	V			8	0.75		0.60	3.60		
	D			2	0.90		2.10	3.78		
								7.92		
								76.38	1038.96	79355.76
13	KSRB 5-14.1 : Providing and constructing non load beraing wall with solid concrete blocks of size 400x100x200mm having block density not less than 1800 kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to I.S 2185 (Part I) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing hire charges of machineries etc. complete as per specifications. (S.No. 5.28, Page No. 25), (SR 2018-19),									
	Basic Rate =	811.00								
	Area Weightage @8%=	64.88								
	Total Rate =	**875.88**	Sqm							
				2	3.20		2.40	15.36		
	toilet partition			6	1.20		2.40	17.28		
								32.64		
	deduct			7	0.75		2.10	11.03		
	D1									
								21.62	937.68	20267.95
14	KSRB 14.14-5 : Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS, (Ceramic anti skid Tiles of size 400 x 400mm on a bed of 20 mm thick), (Sl. No 14.36.3, Page No. 106, (SR 2018-19),									
	Basic Rate =	1348.00								
	Area Weightage @8%=	107.84								
	Total Rate =	**1455.84**	Sqm							
				7	1.20	1.00		8.40		
	WC			1	2.00	3.20		6.40		
	TOILET			1	2.00	3.20		6.40		
	TOILET							21.20	1455.84	30863.81
15	KSRB 14-17.1: Providing skirting, dado, rises of steps with White glazed tiles 20x20cms 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. specification No. KBS 14.16,14.17(PWD, S.R. 2018-19)(Page No. 106, item No.14.40)									
	Basic Rate =	1168.00								
	Area Weightage @8%=	93.44								
	Total Rate =	**1261.44**	Sqm							
				1	5.85		2.10	12.29		
	L toilet									

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	wc			4	3.65		2.10	30.66		
	G toilet			1	7.15		2.10	15.02		
	wc			3	3.65		2.10	23.00		
								80.96	1261.44	102119.88
16	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P.No. 108, I.No. 14.52 of PWD SR 2018-19)									
	Basic Rate =	3525.00								
	Area Weightage @8%=	282.00								
	Total Rate =	**3807.00**	Sqm							
	wash basin area			1	0.90		0.60	0.54		
				1	0.90		0.60	0.54		
	urinal partition			3	0.45		1.00	1.35		
								2.43	3807.00	9251.01
17	KSRB9.4.1-Providing Math/Nandi wood frames of doors ,windows, clerestory windows, ventilatorsand other frames,wroughtframed or assembled including making plaster grooves(excluding cost of cement concrete and side clamps),but including cost of materials,labour ,HOM of machineries, complete as per specifications. Specification No.KBS9.33 (PWD, S.R. 2018-19)(Page No. 51, item No. 9.12)									
	Basic Rate =	73196.00								
	Area Weightage @8%=	5855.68								
	Total Rate =	**79051.68**	Cum							
	main door			2	6.30	0.12	0.09	0.14		
								0.14	**79051.68**	**10757.35**
18	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 , (Sl. No. 9.16, Page No. 52), (SR 2018-19),									
	Basic Rate =	4176.00								
	Area Weightage @8%=	334.08								
	Total Rate =	**4510.08**	Sqm							
				2	0.90		2.10	3.78		
								3.78	**4510.08**	**17048.10**
19	Supply and fixing of door frame made of hollow extruded PVC Section (Nandi or Equivalent) having dimension of 40x57mm with the wall thickness of 2mm+/-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2corners shall be metric cut/ welded.. (Sl No 9.88, Page No 54), (SR 2018-19),									
	Basic Rate =	250.00								
	Area Weightage @8%=	20.00								
	Total Rate =	**270.00**	Rmt							
	toilet door			7	6.00			42.00		
								42.00	**270.00**	**11340.00**

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	Providing fixtures with made brass /SS CP of appoved quality for Main doors, Internal and Toilet doors,), (Hinges 5" heavy duty,Door Lock, Tower Bolt 300mm long, Aluminum handles - 15cms,Locking Arrangements,40mm Screws"), (Material Components)									
	Main door									
	Hinges 5" heavy duty			2	6.00			12.00	31.36	376.32
	Door Lock			2	1.00			2.00	347.46	694.92
	Tower Bolt 300mm long			2	2.00			4.00	133.40	533.60
	Aluminum handles - 15cms			2	2.00			4.00	59.32	237.28
	Locking Arrangements			2	1.00			2.00	550.85	1101.70
	40mm Screws			10	36.00			360.00	2.54	914.40
20	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. (Sl. No. 9.84, Page No 59), (SR 2018-19),									
	Basic Rate =	468.00								
	Area Weightage @8%=	37.44								
	Total Rate =	**505.44**	Sqm							
				7	0.75		2.10	11.03		
								11.03	**505.44**	**5572.48**
21	KSRB 15-3.9: Providing 18mm thick cement plaster in Single coats with cement mortar 1:6 to Brick Masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. External Plastering (PWD, S.R. 2018-19)(Page No. 114, item No. 15.17)									
	Basic Rate =	245.00								
	Area Weightage @8%=	19.60								
	Total Rate =	**264.60**	Sqm							
	External wall			2	7.20		3.00	43.20		
				2	3.60		3.00	21.60		
								64.80		
	Deduct			8	0.75		0.60	3.60		
	v			1	1.20		0.60	0.72		
	v1			2	0.90		2.10	3.78		
	D							**8.10**		
								56.70	**264.60**	**15002.82**
22	KSRB 15-3.3: Providing 12mm thick cement plaster in single coat with cement mortor 1:6, to brick masonry including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Including lime rendering) (PWD, S.R. 2018-19)(Page No. 113, item No. 15.11)									
	Basic Rate =	193.00								
	Area Weightage @8%=	15.44								
	Total Rate =	**208.44**	Sqm							
	Internal Plastering			1	5.85		0.90	5.27		
	L toilet			4	3.65		0.90	13.14		
	wc									

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	G toilet			1	7.15		0.90	6.44		
	wc			3	3.65		0.90	9.86		
	Sump			2	2.55		1.20	6.12		
				2	1.70		1.20	4.08		
								44.90		
	V			8	0.75		0.60	3.60		
	V1			1	1.20		0.60	0.72		
								4.32		
								40.58	208.44	8457.45
23	KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications(PWD, S.R. 2018-19)(Page No. 112, item No. 15.13)									
	Basic Rate =	221.00								
	Area Weightage @8%=	17.68								
	Total Rate =	**238.68**	Sqm							
	slabs			1	2.55	1.70		4.34		
				1	7.20	3.60		25.92		
								30.26		
								30.26	238.68	7221.26
24	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - a) 100% for fresh surface, b) Upto 10 % for repainting, (Sl. No. 15.106, Page No. 126), (SR 2018-19), (BASIC RATE-56.00)									
	Basic Rate =	78.00								
	Area Weightage @8%=	6.24								
	Total Rate =	**84.24**	Sqm							
	wall+ ceiling plastering qnty							70.83		
								70.83	84.24	5966.72
25	KSRB 15-15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specification - do with primer (PWD, S.R. 2018-19)(Page No. 117, item No. 15.51.2)									
	Basic Rate =	90.00								
	Area Weightage @8%=	7.20								
	Total Rate =	**97.20**	Sqm							
	Internal Plastering + CEILING							70.83		
								70.83	97.20	6884.68
26	KSRB15-16.2: Providing and finishing external walls with in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortardrops and other foreign matter cost of material labour complete as per specifications with primer. (PWD, S.R. 2018-19)(Page No. 118, item No. 15.53.2)									
	Basic Rate =	102.00								
	Area Weightage @8%=	8.16								
	Total Rate =	**110.16**	Sqm							
								56.70		

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
								56.70	110.16	6246.07
27	KSRB 15-17.4 : Applying priming coat over new wood surface and/or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. (Sl. No. 15.58, Page No. 119), (SR 2018-19).									
	Basic Rate =	50.00								
	Area Weightage @8%=	4.00								
	Total Rate =	**54.00**	Sqm							
				2	0.90		2.10	3.78		
								3.78	54.00	204.12
27	KSRB 15-17.16 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with coal tor paint to give even shade after cleaning the surface of all durts,dust,and foreign matter, including cost of materials, labour, complete as per specification. (Sl.No 15.68, Page No. 120), (SR 2018-19).									
	Basic Rate =	60.00								
	Area Weightage @8%=	4.80								
	Total Rate =	**64.80**	Sqm							
				2	0.90		2.10	3.78		
								3.78	64.80	244.94
28	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (Sl. No. 15.73, Page No. 121), (SR 2018-19),									
	Basic Rate =	41.00								
	Area Weightage @8%=	3.28								
	Total Rate =	**44.28**	Sqm							
				1	1.20		0.60	0.72		
	WINDOW GRILLS			8	0.75		0.60	3.60		
								4.32	44.28	191.29
29	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications (Sl.No 15.74, Page No.121), (SR 2018-19)									
	Basic Rate =	95.00								
	Area Weightage @8%=	7.60								
	Total Rate =	**102.60**	Sqm							
								4.32	102.60	443.23

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
30	KSRB 7.10 : Providing and fixing in position **aluminium windows and ventilators** as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.. (Page No. 31, item No. 7.10.1)									
	Basic Rate =	4226.00								
	Area Weightage @8%=	338.08								
	Total Rate =	**4564.08**	Sqm							
	W			1	1.20		0.60	0.72		
	v			8	0.75		0.60	3.60		
								4.32	**4564.08**	**19716.83**
31	KSRB 7.9 : Providing and fixing **M.S.grill work for windows and ventilators** weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (P.No. 32, I.No. 7.9 of PWD SR 2018-19)(Page No. 31, item No. 7.9)									
	Basic Rate =	95.00								
	Area Weightage @8%=	7.60								
	Total Rate =	**102.60**	kgs							
	W			1	1.20		0.60	0.72		
	v			8	0.75		0.60	3.60		
	21kg/Sqm							**4.32**		
								90.72	**102.60**	**9307.87**
	CIVIL WORK TOTAL									**702627.33**
	Sanitory and water supply									
32	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR 2018-19)									
	Basic Rate =	4224.00								

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S. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	Area Weightage @8%=	337.92								
	Total Rate =	**4561.92**	Nos.							
	.Toilet							4		
								4	4561.92	18247.68
33	KSRB 11-6: Providing & fixing white vitreous china clay , water closet European type (Pedestal type , S-Trap) with black solid plastic seat and lid . CP Brass hinges , rubber buffers, 10 litre white glazed / vitreous china clay low level flushing cistern (all are approved make) with fittings C.I. /M.S. Brackets , 40 mm diameter flush bend fittings and clamps over flow arrangement with specials and 25 mm mosquito proof coupling of approved design , painting of fittings and brackets ,cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. (PWD, S.R. 2018-19)(p 77,, Item No.12.6)									
	Basic Rate =	4807.00								
	Area Weightage @8%=	384.56								
	Total Rate =	**5191.56**	Nos.							
	.Toilet							3		
								3	5191.56	15574.68
34	KSRB 11-11.3 : Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11(PWD, S.R. 2018-19)(p 80,, Item No.12.25)									
	Basic Rate =	3879.00								
	Area Weightage @8%=	310.32								
	Total Rate =	**4189.32**	Nos.							
								2		
								2	4189.32	8378.64
35	KSRB 11-7.3 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of three with 7.5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (PWD, S.R. 2018-19)(p 80,, Item No.12.9)									
	Basic Rate =	5814.00								
	Area Weightage @8%=	465.12								
	Total Rate =	**6279.12**	Nos.							
								2		
								2	6279.12	12558.24
36	ksrb13-6,1-2:Providing and fixing in position brass bib cock of approved quality 20 mm dia nominal bore including cost of materials, labour HOM of equipments with all leads complete with specifications Specification No.KBS 13.2.2./13.3 (PWD, S.R. 2018-19)(p 91,, Item No.13.24)									
	Basic Rate =	173.00								
	Area Weightage @8%=	13.84								
	Total Rate =	**186.84**	Each							
				11				10	186.84	1868.40
	SOIL & WASTE PIPE SYSTEM - INTERNAL									

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (in Rs.)
	Providing and fixing to wall, ceiling and floor unplasticised PVC 6kgs/sqm working pressure with pipe fittings, wallll clips etc. and making good the wall , ceiling and floor for sanitary pipe lines including cost of all materials, labour T&OM of acquirements and testing complete as per specifications.(PWD, S.R. 2018-19)(p 88, Item No.12.116)									
	a) 75 mm dia									
	Basic Rate =	280.(8)								
	Area Weightage @8% =	22.40								
	Total Rate =	302.40	Rmt	13				13	302.40	3628.80
	b) 110 mm dia									
	Basic Rate =	434.(8)								
	Area Weightage @8% =	34.72								
	Total Rate =	468.72	Rmt	6				6	468.72	2812.32
38	Providing and fixing rigid PVC bend of required degree (of approved make) for S.W.R. drainage pipes of approved including lubricating.									
	Basic Rate =	520.(8)								
	Area Weightage @8% =	41.60								
	Total Rate =	561.60	Each	9				9	561.60	5054.40
39	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in CC 1:2:4 as per directions of 12.5cms x 7.5cms (Rate is inclusive of cost of materials and fixtures and conveyanceof materials to work spot). (PWD, S.R. 2018-19)(p 88, Item No.12.113.2)									
	Basic Rate =	285.(8)								
	Area Weightage @8% =	22.80								
	Total Rate =	307.80	No.	11				11	307.80	3385.8
40	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/ I.No.11.50.3 of PWD SR 2018-19)									
	Basic Rate =	5300.00								
	Area Weightage @8% =	424.00								
	Total Rate =	5724.00	No.	3				3	5724.00	17172.00
	WATER SUPPLY SYSTEM - INTERNAL									

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
41	Providing and fixing CPVC pipes confirming to IS 15778 , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mt spacing . This includes jointing of pipes and fittings with one stepCPVC Solvent cement and cost of cutting chases and making good the same including testing of joints complete (concealed work including cutting chasea and good the walls etc.) (PWD, S.R. 2018-19)(pg.no.96 , i.no.13.86.2)									
	32mm dia									
	Basic Rate =	374.00								
	Area Weightage @8%=	29.92								
	Total Rate =	**403.92**	Rmt							
				6				6	403.92	2423.52
	25mm dia									
	Basic Rate =	293.00								
	Area Weightage @8%=	23.44								
	Total Rate =	**316.44**	Rmt							
				12				12	316.44	3797.28
42	KSRB-13-6.2-4 Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(PWD, S.R. 2018-19)(p 91,, Item No.13.29)									
	Basic Rate =	139.00								
	Area Weightage @8%=	11.12								
	Total Rate =	**150.12**	Each							
				11				11	150.12	1651.32
43	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screed end) 5 mm nominal bore including cost of all materials , labour , HOM of equipments ith all lead , complete as per specifications(PWD, S.R. 2018-19)(p 91,, Item No. 13.35)									
	a) 32 mm dia									
	Basic Rate =	830.00								
	Area Weightage @8%=	66.40								
	Total Rate =	**896.40**	Nos							
				1				1	896.40	896.4
	EXTERNAL WORKS									
	EXTERNAL SEWAGE SYSTEM									
44	KSRB 2 - 2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m.and above in width, in ordinary soil not exceeding 1.5m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.specification No.KBS 2.1(a)/2.3.5 (PWD, S.R. 2018-19)(p 5,, Item No. 2.3)									
	Basic Rate =	299.00								
	Area Weightage @8%=	23.92								
	Total Rate =	**322.92**	Cum							
				1	9	1	0.6	5.4		
								5.4	322.92	1743.77

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
45	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 (PWD, S.R. 2018-19)(p 170,, Item No.11.2)									
	Basic Rate =	368.00								
	Area Weightage @8%=	29.44								
	Total Rate =	**397.44**	Rmt							
				6				6	397.44	2384.64
46	Refilling available earth around the pipeline, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.(PWD, S.R. 2018-19)(p 6,, Item No.2.11)									
	Basic Rate =	121.00								
	Area Weightage @8%=	9.68								
	Total Rate =	**130.68**	cum							
				5.4				5.4	130.68	705.67
47	Providing stoneware gully trap of approved quality and make fixing inm-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). (15cms x10cms) (PWD, S.R. 2018-19)(pg.no.88, item no.12.112.2)									
	Basic Rate =	280.00								
	Area Weightage @8%=	22.40								
	Total Rate =	**302.40**	No.							
				2				2	302.40	604.80
	EXTERNAL WATER SUPPLY SYSTEM									
48	KSRB 2 - 2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m.and above in width, in ordinary soil not exceeding 1.5m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.specification No.KBS 2.1(a)/2.3.5 (PWD, S.R. 2018-19)(p 5,, Item No.2.3)									
	Basic Rate =	299.00								
	Area Weightage @8%=	23.92								
	Total Rate =	**322.92**	cum							
				1	9	1	0.6	5.4		
								5.4	**322.92**	**1743.77**
49	KSRB - 13-3-6 Providing and fixing in trenches galvanised medium grade 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipments and testing complete as per specifications (From Sump to OHT)(PWD, S.R. 2018-19)(p 90,, Item 13.6)									
	Basic Rate =	512.00								
	Area Weightage @8%=	40.96								
	Total Rate =	**552.96**	Rmt.							
								6		
								6	**552.96**	**3317.76**
50	Refilling available earth around the pipeline, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.(PWD, S.R. 2018-19)(p 6,, Item No. 2.11)									

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	Basic Rate =	121.00								
	Area Weightage @8%=	9.68								
	Total Rate =	**130.68**	cum							
								5.4		
								5.4	130.68	705.67
51	KSRB - 13-7-1.3 Providing and fixing 50mm dia nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials,labour charges,HOM of equipments and testing complete as per specifications (PWD, S.R. 2018-19)(p 93,, Item No.13.55)									
	Basic Rate =	1330.00								
	Area Weightage @8%=	106.40								
	Total Rate =	**1436.40**	No.							
				2				2	1436.40	2872.80
52	KSRB - 13-11.1 Providing and placing on terrace , polyethylene water storage tanks (1000 ltr capacity) (PWD, S.R. 2018-19)(p 94,, Item No. 13.78)									
	Basic Rate =	6828.00								
	Area Weightage @8%=	546.24								
	Total Rate =	**7374.24**	No.							
				1				1	7374.24	7374.24
53	Supplying, installing, testing and commissioning of Submersible Pump (2 HP/1.5KW 25 STAGE) of adequate HP capable of giving required discharge at suitable head to work on 1 phase 50Hz 400/400 V with necessary unions, flanges, foundations bolts RCC footing etc., complete with25meter head with 1.0lps conditions. (1no. working and 1no. Standby). Make=Kirlosker (Basicv rate 19000 Taxes 5.50% = 20000) Sump to Over Head tank & Bio Medical Chamber TO IC (MATERIAL COMPONENTS XXXXIV SL NO-15 PWD NORT ZONE 2018-19									
	Basic Rate =	19021.00								
		0.00								
	Total Rate =	**19021.00**	Sqm							
	Opening			1				1		
								1.00	19021.00	19021.00
54	Providing and fixing MS door for sump including cost of labour, materials and one coat of primer paint and two coats of enamel painting etc, as directed by the engineer in charge of work (PWD, S.R. 2018-19)									
	Basic Rate =	3500.00								
	Area Weightage @8%=	280.00								
	Total Rate =	**3780.00**	Sqm							
	Opening			1	0.60		0.60	0.36		
								0.36	3780.00	1360.80
										139284.40
	water supply total									
	Electrical Work									
	Part A- Internal wiring									
55	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.(Page No. 2, Item No.1.1.1 & 1.1.2)									
	a) 19/20mm dia 2mm thick									
	Basic Rate =	50.00	Mtr	15				15.00	50.00	750.00
	b) 25mm dia 2mm thick									
	Basic Rate =	65.00	Mtr	15				15.00	65.00	975.00

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (in Rs.)
56	Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary.(Page No. 2, Item No.1.2.1 & 1.2.2)									
	a) 19/20mm dia 2mm thick									
	Basic Rate =	40.00	Mtr	15				15.00	40.00	600.00
	b) 25mm dia 2mm thick									
	Basic Rate =	53.00	Mtr	15				15.00	53.00	795.00
57	Groove Cutting : Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary.(Page No. 2, Item No.1.3.1 & 1.3.2)									
	a) 19/20mm dia 2mm thick									
	Basic Rate =	56.00	Mtr	15				15.00	56.00	840.00
	b) 25mm dia 2mm thick									
	Basic Rate =	58.00	Mtr	15				15.00	58.00	870.00
58	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall(Page No. 15, Item No.3.5.1 to 3.5.5)									
	a) 1-3Way									
	Basic Rate =	91.00	Each	8				8.00	91.00	728.00
	b) 4-5Way									
	Basic Rate =	98.00	Each	5				5.00	98.00	490.00
	c) 6Way									
	Basic Rate =	121.00	Each	2				2.00	121.00	242.00
59	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall(Page No. 15, Item No.3.5.1 to 3.5.5)									
	a) 1-3Way									
	Basic Rate =	95.00	Each	8				8.00	95.00	760.00
	b) 4-5Way									
	Basic Rate =	105.00	Each	5				5.00	105.00	525.00
	c) 6Way									
	Basic Rate =	125.00	Each	2				2.00	125.00	250.00
60	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. (Page No. 16, Item No.3.7)									
	a) 6Amps one way									
	Basic Rate =	70.00	Each	6				6.00	70.00	420.00
	b) 6Amps 3way socket									
	Basic Rate =	105.00	Each	2				2.00	105.00	210.00

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Sl. No.	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
61	supplying and wiring adopting loop system in existing PVC conduit / casing capping using **1100 v grade , copper conductor flexible multistrand FRLS PVC insulated, 2 x1.5sq.mm** cable confirming to the GTP, without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC cound block. complete for each outlet. (Page No. 5, Item No.2.1.1 to 2.1.5)									
	a) Short point up to 3Mtr from tapping point to out let via switch box									
	Basic Rate =	200.00	Each	9				9.00	200.00	1800.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box									
	Basic Rate =	275.00	Each	6				6.00	275.00	1650.00
	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box									
	Basic Rate =	400.00	Each	2				2.00	400.00	800.00
62	Wiring for lighting/power circuit using one of **FRLS PVC** insulated 1100v grade, multistrand **Copper with low** conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A .(Page No. 6, Item No.2.3.2 to 2.3.6)									
	a) 1.5 sqmm									
	Basic Rate =	20.50	Mtr	15				15.00	20.50	307.50
	b) 2.5 sqmm									
	Basic Rate =	32.00	Mtr	15				15.00	32.00	480.00
	c) 25mm dia 2mm thick									
	Basic Rate =	42.10	Mtr	10				10.00	42.10	421.00
63	Supplying and fixing regular **MCB distribution boards** on wall/wood board/flush mountin using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting. Made out of 14 SWG M.S enclosure.(Page No. 47, Item No.5.18.9, 5.17.8,) **Double door**									
	Double door									
	a) 4 way TP & N									
	Basic Rate =	2650.00	Mtr	2				2.00	2650.00	5300.00
	b) 12 way SP & N									
	Basic Rate =	1800.00	Mtr	2				2.00	1800.00	3600.00
64	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 (Page No. 47, Item No. 5.17))									
	a) 5-32Amps SP									
	Basic Rate =	434.00	Each	1				1.00	434.00	434.00
	b) 5-32Amps TPN									
	Basic Rate =	1715.00	Each	2				2.00	1715.00	3430.00
65	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board.(Page No. 47, Item No. 5.20)									
	a) 16-25Amps 2Pole									
	Basic Rate =	2300.00	Each	1				1.00	2300.00	2300.00

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	Description of works		Unit	No	L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	Fabricating supplying and mounting M/S box made out 18SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enamoled metal paint etc., complete (Page No. 49, Item No. 5.42)									
	14 SWG									
	Basic Rate =	0.40								
	Supplying .....amps rated 3phase with **neutral bus bar** using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolicFRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Page No. 49, Item No. 5.40)		Sqcm	3000				3000.00	0.40	1200.00
	100Amps 4x30x6mm Aluminum Strips									
	Basic Rate =	2050.00								
68	Supplying fixing angle **iron frame work** fabricated out of M.S angle iron .. And m.S flat.... With bolts, washers etc., and painted with two coats of red oxide and then two coats of approved paint. (Page No. 49, Item No.5.41)		mtr	2				2.00	2050.00	4100.00
	a) 40x40x6 mm									
	Basic Rate =	255.00								
	a) 50x100x50x6 mm		mtr	1				1.00	255.00	255.00
	Basic Rate =	630.00								
69	Supplying, fixing and wiring 0 to 600Volts **96x96mm AC Voltmeter** on existing panel/wood board. (Page No. 48, Item No. 5.22)		mtr	1				1.00	630.00	630.00
	Basic Rate =	377.00								
70	Supplying, fixing and wiring **50/5 to 400/5Amps** 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound (Page No. 48, Item No. 5.34)		Each	1				1.00	377.00	377.00
	Basic Rate =	468.00								
71	Supplying and fixing of **LED type panel board** indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (Page No. 48, Item No. 5.38)		Each	1				1.00	468.00	468.00
	Basic Rate =	430.00								
72	Supplying fixing and wiring earth **electrode for grounding** of lifts, transformers, DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (Page No. 55, Item No. 6.2)		Each	2				2.00	4150.00	8300.00
	Basic Rate =	4150.00								

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	Description of works		Unit	no	L	B	D	Quantity	Rate(in Rs)	Amount (in Rs)
	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required (Page No. 95, Item No. 6.3.2) GI strip 25x6mm									
	Basic Rate =	₹115.00	Mtr	10				10.00	115.00	1150.00
	Part C: Providing light fixtures and accessories									
74	Supplying of 2 feet 18W LED PVC Square Batten /W with high quality diffuser with Life of 25000 burning hours & 70% human maintenance with CRI > 80, Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers, 5 years Warranty against any manufacturing defect working under standard electrical condition (Page No. 76, Item No. 12.3) LED light fighting 2x9 : 20/22 watts									
	Basic Rate =	₹625.00	Each	4				4.00	625.00	2500.00
75	Supplying and fixing, PVDC/Bakelite straight or sheet holder holder and wiring with 60w/230 volts lamp. (Page No. 20, Item No. 4.3)									
	Basic Rate =	₹183.00	6.00	8				8.00	183.00	1464.00
76	Fixing all types and all capacities fluorescent / false ceiling/spotlight/ CFL fittings indoor on the wall/ ceiling/rafters / girders using 23/0.2mm/ twin twisted PVC insulated wires, required nos of round blocks and clamps (if required) (Page No. 78, Item No. 14.7)									
	Basic Rate =	₹110.00	Each	8				8.00	110.00	880.00
	Electrical Total									5977.00
									GRAND TOTAL	6456.36
									CST (12% of the estimated cost)	6457.00
									Total Cost	6913.56
									Miscellaneous and Rounding off	236.59
									Grand Total in Rs	7150000.00

Administrative Approval

Accorded For ₹ 71.50 Lakhs Only
Head of A/C ₹ 3055
CER NO : 111 Dt: 07.10.19 In Figures Rupees Ten Lakhs Only

TA

CE (W&K)

Technical Sanction

Accorded For ₹ 71.50 Lakhs
Head of A/C ₹ 3055
CER NO : 52 Dt: 7.10.2019

Certificate:

1) The Work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R 2018-19 and approved rates

AC

S.E. (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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